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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/695,253	10/25/2000	Hang-woo Lee	030681-248	2631
21839 7	590 10/15/2002			
BURNS DOANE SWECKER & MATHIS L L P			EXAMINER	
POST OFFICE ALEXANDRIA	BOX 1404 A, VA 22313-1404		DAY, MICHAEL HENRY	
			ART UNIT	PAPER NUMBER
			2879	
			DATE MAILED: 10/15/2002	•

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No. 09/695,253 Applicant(s)

H. Lee, et al.

Michael Day

Art Unit 2879



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	The MAILING DATE of this communication appears	on the cover sheet with the correspondence address
A SH	or Reply ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.	TO EXPIRE <u>three</u> MONTH(S) FROM
- Exter af - If the be - If NO co - Failui	sions of time may be available under the provisions of 37 C ter SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) days considered timely.  period for reply is specified above, the maximum statutory mmunication.  e to reply within the set or extended period for reply will, by	FR 1.136 (a). In no event, however, may a reply be timely filed cation.  a, a reply within the statutory minimum of thirty (30) days will period will apply and will expire SIX (6) MONTHS from the mailing date of this y statute, cause the application to become ABANDONED (35 U.S.C. § 133).  The mailing date of this communication, even if timely filed, may reduce any
	rned patent term adjustment. See 37 CFR 1.704(b).	, , , , , , , , , , , , , , , , , , , ,
Status 1) $\square$	Responsive to communication(s) filed on	
· _		
2a) ∐		tion is non-final.
3) 🗌	Since this application is in condition for allowance closed in accordance with the practice under Ex pa	except for formal matters, prosecution as to the merits is arte Quayle, 1935 C.D. 11; 453 O.G. 213.
Disposi	tion of Claims	
4) 💢	Claim(s) 1 and 2	is/are pending in the application.
4	a) Of the above, claim(s)	is/are withdrawn from consideration.
5) 🗆	Claim(s)	is/are allowed.
6) 💢	Claim(s) 1 and 2	
7) 🗌	Claim(s)	is/are objected to.
8) 🗆	Claims	are subject to restriction and/or election requirement.
Applica	tion Papers	
9) 🗆	The specification is objected to by the Examiner.	
10)	The drawing(s) filed on is/are	objected to by the Examiner.
11)	The proposed drawing correction filed on	is: a) □ approved b) □ disapproved.
12)	The oath or declaration is objected to by the Exam	iner.
Priority	under 35 U.S.C. § 119	
13)💢	Acknowledgement is made of a claim for foreign p	riority under 35 U.S.C. § 119(a)-(d).
a) 🗴	All b) Some* c) None of:	
	1. $ ot\!$	ve been received.
	2. $\square$ Certified copies of the priority documents hav	ve been received in Application No
	application from the International Bure	
14) 🗆	ee the attached detailed Office action for a list of the Acknowledgement is made of a claim for domestic	
,—	The state of the s	priority under 33 0.3.6. 3 113(c).
Attachm		
	tice of References Cited (PTO-892)	18) Interview Surremary (PTO-413) Paper No(s).
	ormation Disclosure Statement(s) (PTO-1449) Paper No(s). 4, 5	19) Notice of Informal Patent Application (PTO-152)  20) Other:
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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

2. Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jager in view of Keesmann et al.

Referring to claim 2, Jager discloses a field emission display substantially as claimed. See FIG. 1, 2 and respective portions of the specification. Jager discloses a field emission display including a front substrate 6, a rear substrate 10, a cathode lines 11, anode lines 9r, 9g, 9b phosphor 7r, 7g, 7b formed on the anode lines and extraction electrodes 19 parallel to the anode lines 9r, 9g, 9b. Jager does not disclose a field emission display including carbon nanotubes formed on the cathode lines. Keesmann et al. disclose a field emission display (see col. 7, lines

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15-20) including carbon nanotubes 31 formed on the cathode lines providing stable emission (see col. 3, lines 35-40. It would have been obvious to form carbon nanotubes 31, as disclosed by Keesmann et al., in the display, as disclosed by Jager, for the advantage of providing stable emission.

Claim 1 is broader than claim 2. Consequently, claim 1 is rejected for the same reason as claim 2.

## Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Day whose telephone number is 703/305-4941. The examiner can normally be reached on Monday-Friday, from 8:00 A.M. to 5:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar Patel, can be reached by phoning 703/305-4794. The Fax phone number is 703/308-7382.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is 703/308-0956.

October 7, 2002

MICHAEL DAY PRIMARY EXAMINER GROUP 2870

Mr S